

What Is Claimed Is:

1 1. A system of operation information collection for
2 CD-ROM drives, comprising:

3 a CD-ROM drive system having a serial communication
4 interface through which to output operation
5 information; and

6 a reception device having a reception port and storage to
7 receive and store the operation information from the
8 CD-ROM drive system.

1 2. The system of operation information collection for
2 CD-ROM drives as claimed in claim 1 wherein the reception device
3 further transmits a start transmission signal to the CD-ROM
4 drive system, and the CD-ROM drive system outputs the operation
5 information to the reception device through the serial
6 communication interface.

1 3. The system of operation information collection for
2 CD-ROM drives as claimed in claim 1 wherein the reception device
3 further transmits the operation information to a computer host
4 for analysis through an output port in real time.

1 4. The system of operation information collection for
2 CD-ROM drives as claimed in claim 1 wherein the reception device
3 further comprises a switch, and transmits the operation
4 information in the storage to a computer host for analysis
5 through an output port according to the switch.

1 5. The system of operation information collection for
2 CD-ROM drives as claimed in claim 1 wherein the serial

3 communication interface is a UART (Universal Asynchronous
4 Receiver/Transmitter) interface, an I²C (Inter-Integrated
5 Circuit) bus interface, or a synchronous mode interface.

1 6. A method of operation information collection for
2 CD-ROM drives, comprising the steps of:

3 output of operation information through a serial
4 communication interface by a CD-ROM drive system;
5 reception of the operation information from the CD-ROM
6 drive system by a reception device; and
7 storing the operation information in storage of the
8 reception device.

1 7. The method of operation information collection for
2 CD-ROM drives as claimed in claim 6 further comprising the steps
3 of:

4 transmission of a start transmission signal by the
5 reception device transmits;
6 reception of the start transmission signal by the CD-ROM
7 drive system; and
8 output of the operation information through the serial
9 communication interface by the CD-ROM drive system.

1 8. The method of operation information collection for
2 CD-ROM drives as claimed in claim 6 further transmitting the
3 operation information to a computer host for analysis through
4 an output port by the reception device in real time.

1 9. The method of operation information collection for
2 CD-ROM drives as claimed in claim 6 further comprising
3 triggering a switch of the reception device, and transmission

4 of the operation information in the storage to a computer host
5 for analysis through an output port by the reception device
6 according to the trigger.

1 10. The method of operation information collection for
2 CD-ROM drives as claimed in claim 6 wherein the serial
3 communication interface is a UART (Universal Asynchronous
4 Receiver/Transmitter) interface, an I²C (Inter-Integrated
5 Circuit) bus interface, or a synchronous mode interface.

1 11. A reception device of operation information
2 collection, comprising:
3 a reception port to receive operation information;
4 storage; and
5 a micro-controller to store the operation information in
6 the storage.

1 12. The reception device of operation information
2 collection as claimed in claim 11 further comprising an output
3 port, the micro-controller further transmitting the operation
4 information to a computer host for analysis through the output
5 port in real time.

1 13. The reception device of operation information
2 collection as claimed in claim 11 further comprising an output
3 port and a switch, the micro-controller further transmitting the
4 operation information in the storage to a computer host for
5 analysis through the output port according to the switch.

1 14. The reception device of operation information
2 collection as claimed in claim 11 wherein the micro-controller
3 further transmits a start transmission signal through the

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4 reception port, and a device outputs the operation information
5 to the reception device through a serial communication
6 interface.

7 15. The reception device of operation information
8 collection as claimed in claim 14 wherein the serial
9 communication interface is a UART (Universal Asynchronous
10 Receiver/Transmitter) interface, an I2C (Inter-Integrated
11 Circuit) bus interface, or a synchronous mode interface.

1 16. A method of operation information collection for use
2 in a reception device, comprising the steps of:
3 reception of operation information through a reception
4 port by the reception device; and
5 storing of the operation information in storage by a
6 micro-controller of the reception device.

1 17. The method of operation information collection as
2 claimed in claim 16 further comprising transmission of the
3 operation information to a computer host for analysis through
4 an output port by the micro-controller in real time.

1 18. The method of operation information collection as
2 claimed in claim 16 further comprising transmission of the
3 operation information in the storage to a computer host for
4 analysis through the output port by the micro-controller
5 according to a switch.

1 19. The method of operation information collection as
2 claimed in claim 16 further comprising transmission of a start
3 transmission signal through the reception port by the
4 micro-controller, and output of the operation information to the

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Our ref.: 0711-9023-USf/Yianhou/Kevin

5 reception device through a serial communication interface by a
6 device.

1 20. The method of operation information collection as
2 claimed in claim 19 wherein the serial communication interface
3 is a UART (Universal Asynchronous Receiver/Transmitter)
4 interface, an I2C (Inter-Integrated Circuit) bus interface, or
5 a synchronous mode interface.